

NOV 08 1995



November 6, 1995

Ms. Linda Elliott
Project Manager
Petroleum Sites Management
Vermont Department of
Environmental Conservation
103 South Main Street
Waterbury, Vermont 05676

#951880

RE: West Barnet Garage - Expressway Site Investigation Summary Report

Dear Ms. Elliott:

In response to finding significant petroleum contaminated soil and ground water during an underground storage tank (UST) removal and abandonment, Bradford Oil Company, Inc. (BOC) contracted Lincoln Applied Geology, Inc. (LAG) to perform an Expressway Site Investigation at the West Barnet Garage (WBG). The data collected during the site investigation indicates that significant soil and ground water contamination is present and further delineation of contaminant extent and magnitude is necessary. Contaminant levels measured on-site indicate that a significant amount of adsorbed and dissolved phase contamination remains on-site which has the potential of affecting receptors including the stream, interior building spaces, and water supplies. The site appears to be amenable to expeditious remediation, if necessitated. Therefore further investigation of the degree and extent of contamination is needed. This work will be performed in a manner to assist with Corrective Action Feasibility Investigation (CAFI) and Corrective Action Plan (CAP) generation, if deemed necessary.

Enclosed for your information and use are the following work products:

Table 1,	Ground Water Elevation and Product Thickness Data;
Table 2,	PID Assays;
Table 3,	Ground Water Quality Summary;
Figure 1,	General Location Map;
Figure 2,	Detailed Site Map;
Figure 3,	Ground Water Contour Map for September 28, 1995;
Figure 4,	Water Quality Summary Map for September 19, 1995;
Figure 5,	Proposed Soil Gas and Monitoring Well Locations;
Appendix A,	Underground Storage Tank Removal Form;
Appendix B,	Well Logs;
Appendix C,	Water Quality Results;
Appendix D,	Local Well Owner and Adjoining Property Owner List; and
Appendix E,	Cost Estimate for Additional Investigations for CAFI.

The WBG is located adjacent to Harvey's Lake Stream which drains Harvey's Lake

directly to the north in West Barnet. The general site location is depicted on **Figure 1**. The location of the contaminated stockpiled soil is also shown on **Figure 1**. A detailed site map is included as **Figure 2**. To familiarize you with the data collected during the underground storage tank (UST) removal and new UST installation, the UST removal form is included as **Appendix A**.

The soils in the Harvey's Lake Stream area are mapped generally as pluvially deposited silts and very fine sands. The pluvial soil type was confirmed by the boring logs included in **Appendix B**. The locations of the four borings and monitoring wells are shown on **Figure 2** as MW's 1, 2, 3, and 4.

As described in **Appendix A**, UST Removal Form, and **Appendix B**, Well Logs, the site is underlain by several feet of sandy gravelly fill placed directly atop native silts and very fine sands. Bedrock was not encountered on-site. Ground water was encountered between 3 and 4 feet below grade. Significant gasoline odor was present and positive photoionization detector (PID) assays were obtained throughout the vadose zone and saturated soil to depths of 7 to 14 feet below grade. Below this depth PID readings were minimal. The highest level of PID quantifiable contamination was noted in the former UST area (MW-4) between 5 and 8 feet below grade at 220 parts per million (ppm). The water bearing zone beginning between 3 and 4 feet below grade exists primarily within the native silty fine sand soils. However, mottling (an indicator of high ground water levels) indicates that ground water may fluctuate to within 2 feet of grade and into the fill. Well construction details for MW's 1 - 4 are also included in **Appendix B**.

Ground water elevation and headspace PID data was collected on September 28 and October 10, 1995. The ground water elevations are included in **Table 1** and the headspace PID assays are included in **Table 2**. The water levels were measured with an interface probe capable of measuring free floating product thicknesses as thin as 0.01 feet. No free floating product was measured, although elevated PID levels were seen in all four of the monitoring well on-site. Elevated PID readings (up to 2.6 ppm) were also measured in the WBG shallow well. It should be noted that this well is not used as a potable water supply. It is used for washing hands and other non consumptive purposes. Screening of the adjacent residence basements gave background PID readings. The WBG is slab on grade construction with no basement or crawl space.

Utilizing the water level data collected on September 28, 1995 a ground water contour map has been prepared as **Figure 3**. This map confirms expected ground water flow towards Harvey's Lake Stream. It appears that this general flow direction remains constant regardless of the level of water behind the Harvey's Lake Dam adjacent to the site. Any petroleum contaminants emanating from the former UST area or pump island would be expected to flow towards MW-3, the WBG shallow well, and the dam. The sidegradient



component is unknown so it is quite possible that contaminated ground water associated with the former UST area is present and migrating beneath the WBG.

Each of the monitoring wells on-site along with adjacent water supply wells were sampled on September 19, 1995. The WBG shallow well and Harvey's Stream upstream of the dam were also sampled. No access could be gained to the Mackey residence, so their well was not sampled. Copies of the formal analytical results are included in **Appendix C**, and a summary of the data is presented in **Table 3**. No quantifiable levels of dissolved contamination were found in the Coppenwrath, Fitzgerald, or White water supply wells. These homeowner's were notified of analytical results by a letter sent from us on October 13, 1995. A list of the local drinking water supply well owners and addresses is included as **Appendix D**. The WBG shallow well and each of the monitoring wells on-site contains elevated levels of petroleum related contamination. The highest level of contamination was seen in MW-3 with a total BTEX concentration of 49,300 ppb and MTBE quantified at 3,600 ppb. No quantifiable levels of BTEX or MTBE were found in the Harvey's Lake Stream at the upper dam pin sampling location. The areal distribution of the soluble phase contamination is depicted on **Figure 4**. It is apparent that relatively high concentrations of dissolved contaminants are present beneath parts of the WBG.

After review of the compiled data several potential receptors have been identified adjacent to the WBG. The WBG shallow well currently has petroleum contamination in it. The potential for Harvey's Lake Stream to be impacted by contaminated ground water seepage is high. The White and Coppenwrath residence basements and to a limited extent the WBG airspaces may be affected by petroleum vapors associated with the WBG soil contamination. Each of the water supplies directly adjacent to the WBG (particularly the Coppenwrath shallow well) are also potential receptors.

On October 10, 1995 the contaminated soils stockpile generated during UST replacement was screened with a PID. An average PID assay of 42 ppm was measured in the 180 cubic yard stockpile. The location of the contaminated soil stockpile is shown on **Figure 1** and the details of the soils removal are included in **Appendix A**.

In conclusion, the data collected during the Expressway Site Investigation indicates that:

1. Substantial dissolved and adsorbed petroleum contamination exists beneath the entire site.
2. The complete extent and degree of contamination on-site has not been adequately defined.



Lincoln Applied Geology, Inc.
Environmental Consultants

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3. The WBG shallow well has been adversely affected by petroleum contamination.
4. Harvey's Lake Stream and the surrounding drinking water supplies have not been affected by petroleum contamination.
5. The main component of ground water and dissolved contaminant flow is from the former UST area towards the Harvey's Lake Stream, the WBG well, and the dam. A secondary sidegradient component is potentially carrying some dissolved phase contamination beneath the WBG towards the dam and the southern corner of the Coppenwrath property.
6. The levels of BTEX and MTBE contamination dissolved in the ground water beneath the site are significant enough to potentially cause adverse impacts to the Harvey's Lake Stream and the drinking water supplies unless remediated.
7. The site appears to be amenable to expeditious cleanup, and the current levels of contamination at the WBG coupled with the potential sensitive receptors adjacent to the site necessitate further investigation of the degree and extent of the contamination.

Based on the preceding conclusions it is our recommendation that further investigation of the degree, extent, and relationship to potential receptors of gasoline related contamination beneath the WBG site be conducted to define overall remediation requirements, goals, and potential methods (if necessary). The additional investigation is proposed to include:

1. A limited soil gas survey should be conducted in and around the WBG building to determine appropriate locations for wells required in or down-gradient of it. The soil gas survey will help define locations and also allow the collection of soil gas samples (for analysis) from the source area and vapor phase affected area. The soil gas survey data will help define the significance of the vapor impacts and provide real time input data for the design of a vapor extraction system, if and when considered. The soil gas survey will be conducted from inside the building to outside using the pattern shown on **Figure 5**. Soil gas will be analyzed with a PID and by activated trap/volatile analysis.
2. Five monitoring wells should be placed in the approximate locations shown on **Figure 5**. Four wells will be installed using direct push vibratory methods

stockpiled soils?



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with continuous soil sampling. Due to limited access, the well between the building and the dam will be installed by hand methods. All soil samples will be screened to define textural characteristics and PID quantifiable contaminant levels.

3. If significant contamination is identified beneath the WBG building and downgradient of the WBG building in the Harvey's Lake Dam area, select soil samples acquired during boring installation will be analyzed to define the level of adsorbed contamination in these areas. A soil sample will also be taken from the former source area to determine the level of adsorbed phase contamination remaining in this portion of the site. This data is essential in accurately conducting the CAFI and generating a CAP, if deemed necessary.
4. An accurate stadia survey should be performed to locate the relative position and elevation of the new wells in order to generate accurate ground water contour maps.
5. All monitoring wells and nearby drinking water supplies should be resampled for the presence of BTEX and MTBE.
6. Following the summarization of the extended site investigation, a CAFI of expeditious coremedial approaches to site remediation can be performed, if deemed necessary. The feasibility of these remedial techniques will be determined by utilizing existing and new on-site monitoring wells.

We look forward to your response and will contact you in the next week to discuss the conclusions and recommendations. Included in **Appendix E** is a work plan and cost estimate for the extended site investigation so that work can proceed in the near future. If you have any other questions or concerns with regard to the data presented in this report or the site in general please feel free to contact me at 453-4384.

Sincerely,



Steven LaRosa
Hydrogeologist

SL/smk
enclosures
cc: Bill Sellinger



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Project: West Barnet Garage
Location: West Barnet, Vermont

Table 1
VDEC Site # N/A
Sheet 1 of 1

Ground Water Elevation/Product Level (feet)

Data Point	TOC	09/28/95	10/10/95				
MW-1	100.00	96.29	96.68				
MW-2	99.21	94.54	94.91				
MW-3	99.93	93.56	93.68				
MW-4	100.12	95.16	95.63				
Upper Dam Pin	96.79	91.97	92.82				
Lower Dam Pin	96.79	87.82	87.49				
West Barnet Garage Shallow Well	99.84	92.29	<92.19				

Notes:

- 1 - Elevation datum assumed
- 2 - Reference elevation is elevation of top of PVC well casing
- Light Grey Cell = DRY
- Dark Grey Cell = Inaccessible

Project: West Barnet Garage
Location: West Barnet, Vermont

Table 2
VDEC Site # N/A
Sheet 1 of 1

Photoionization Results (PID - ppm)

Data Point	09/28/95	10/10/95				
MW-1	200	SL				
MW-2	186	26				
MW-3	SL	160				
MW-4	SL	SL				
West Barnet Garage Shallow Well	0.2	2.6				

Notes:
BG - Background
SL - Saturated Lamp

Ground Water Quality Results (ppb)

Data Point	09/19/95					
MW-1	231	<5				
MW-2	1,000	700				
MW-3	49,300	3,600				
MW-4	19,900	2,400				
Upper Dam Pin	<6	<5				
Lower Dam Pin						
West Barnet Garage Shallow Well	2,500	210				
Coppenwrath Well	<6	<5				
Fitzgerald Well	<6	<5				
White Well	<6	<5				

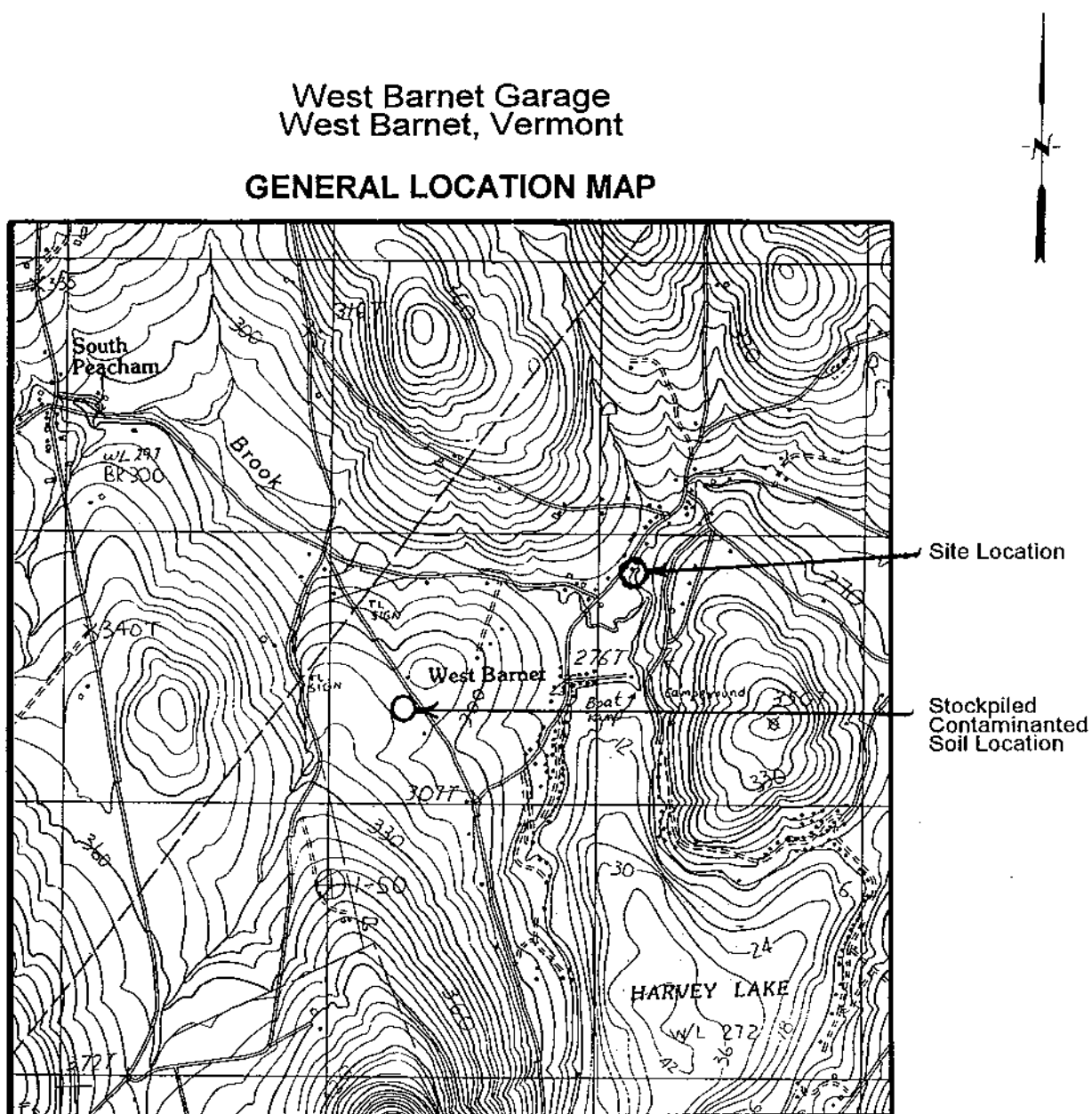
NOTES:

MTBE in upper right corner of cell

BTEX in lower left corner of cell

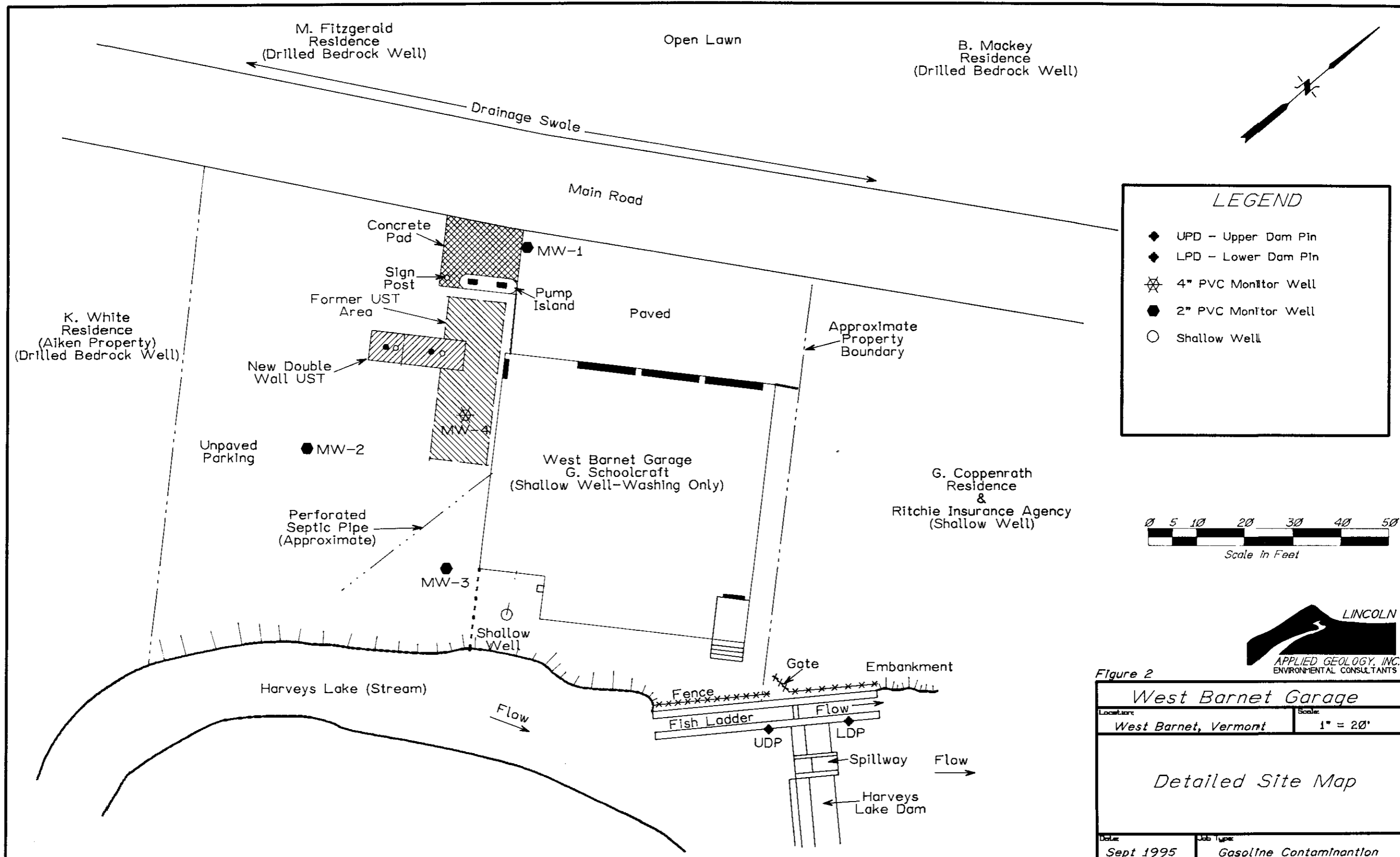
< - Contaminant not detected at specified detection limit

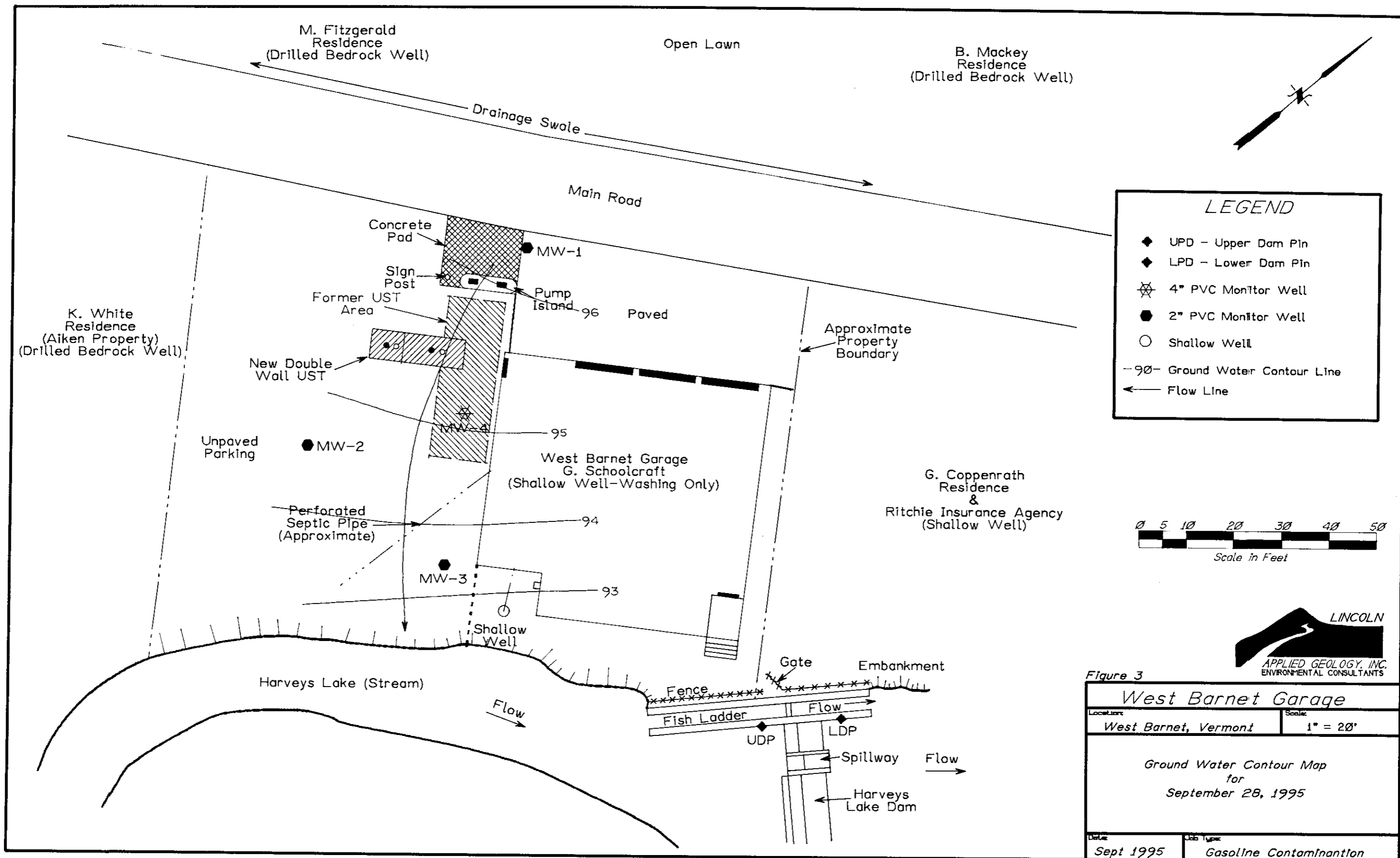
Figure 1

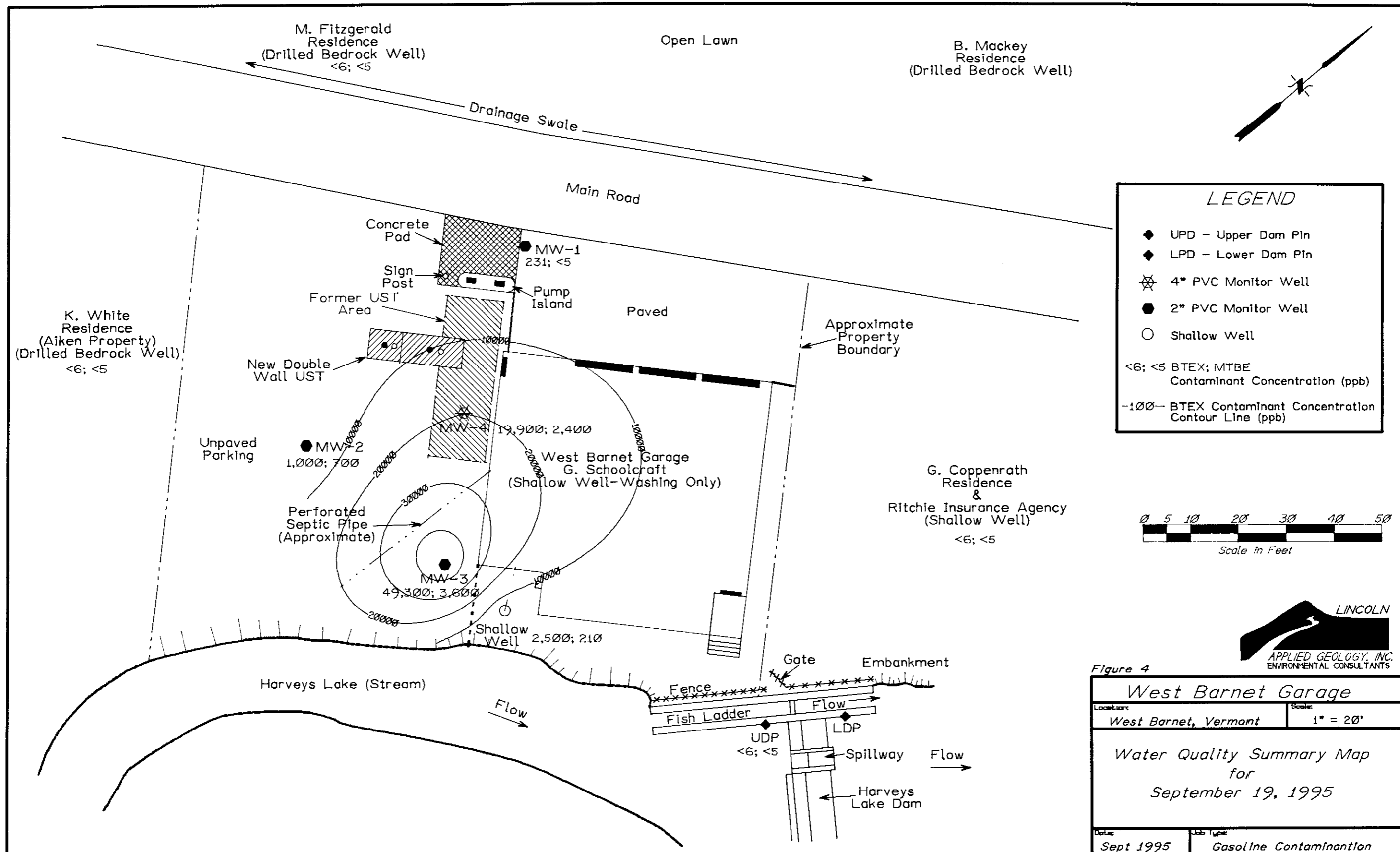


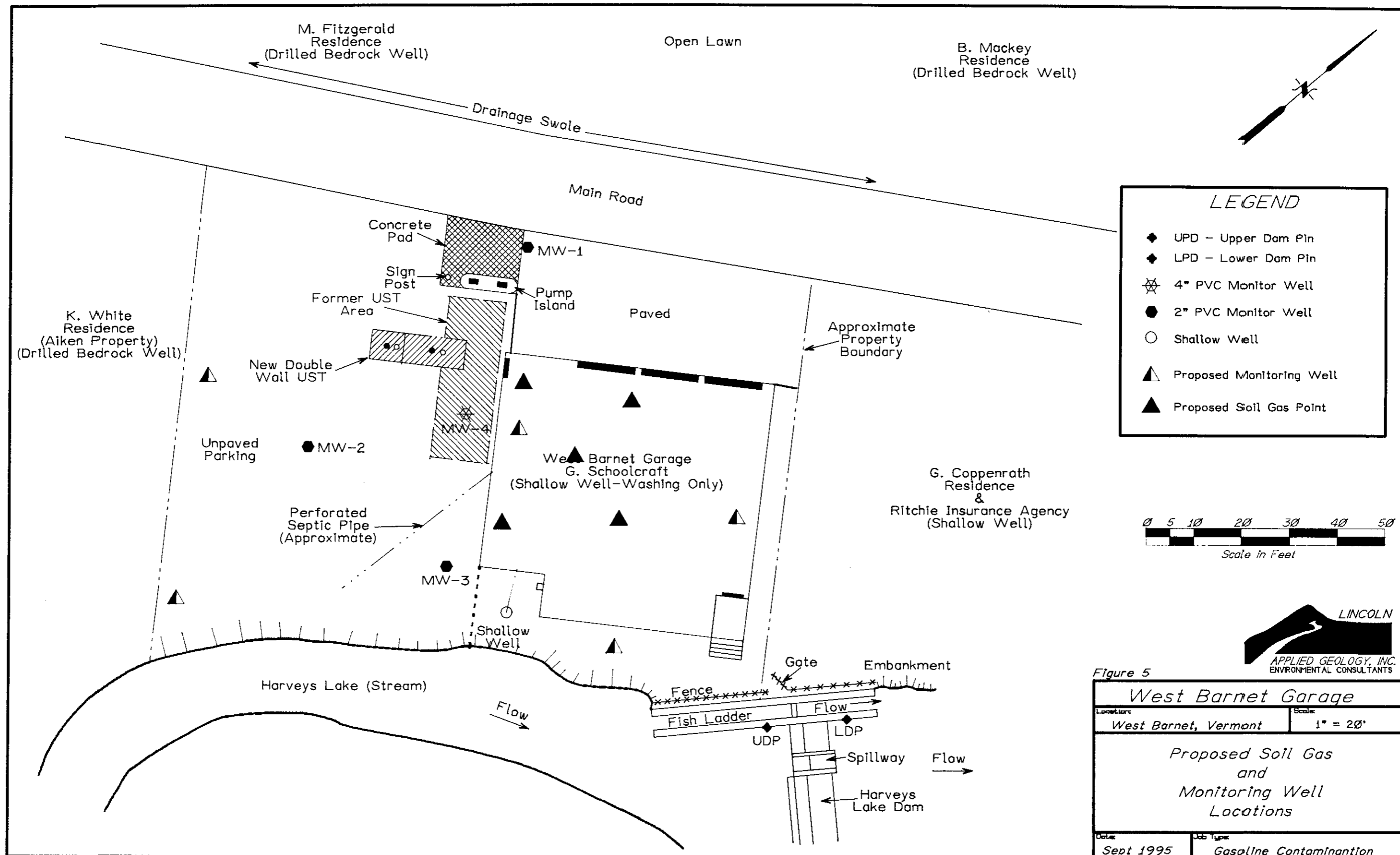
Source: 7.5 x 15 Min Quad.
Barnet, VT-NH
Provisional Edition 1983

Scale: 1:25,000 metric



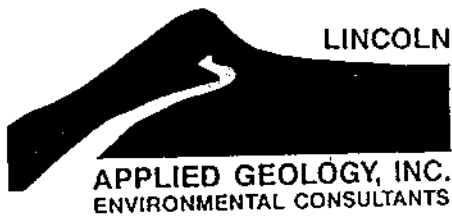






Appendix A

Underground Storage Tank Removal Form



September 18, 1995

Mr. Ted Unkles
Underground Storage Tank Program
Department of Environmental Conservation
103 S. Main St.
Waterbury, VT. 05671

RE: Underground Storage Tank Removal and Closure at the West Barnet Garage
West Barnet, VT.

Dear Mr. Unkles:

Bradford Oil Company (BOC) contracted Lincoln Applied Geology Inc. (LAG) to assist in the removal of two underground storage tanks (USTs) at the West Barnet Garage in West Barnet, Vermont. One 2,000 gallon regular unleaded UST and a 1,000 gallon super unleaded gasoline UST were removed. The 1,000 gallon tank gave indications of product loss and water intake in late June of 1995. The tank was immediately removed from service and removal scheduled.

The 2,000 gallon UST (UST 1) was removed first. The soils directly surrounding the UST consisted of sandy fill materials and gave quantifiable PID readings greater than 50 parts per million (ppm) from approximately 1 foot below grade to 9 feet below grade. UST 1 was in good condition (see enclosed photographs) and gave little to no evidence of weepage or active leakage. UST 2, the 1,000 gallon UST had 168 gallons of contaminated ground water removed by BOC prior to excavation. During removal of UST 2 highly contaminated soils were evidenced throughout the entire excavation to a depth of 10 feet. Free phase adsorbed product was noted on the soils directly beneath the tank for a depth of 3 feet (i.e. 10 feet below grade). Inspection of UST 2 revealed a 0.25 inch diameter hole as shown in the enclosed photographs. The hole was associated with what appears to be a large gouge or imperfection in the UST.

Excavation within the UST area to a depth of 10 feet did not encounter ground water or bedrock. Generally fill materials are found from 0 - 5'. The native soils found from 5 feet and deeper consist of very fine sand and silty very fine sand. The native materials are highly contaminated (> 500 ppm to saturated lamp by PID) and show evidence of being in contact with seasonal high ground water. It is assumed that ground water flows from the UST area towards the stream on the southern property line. No sheen was evident in the stream during UST removal activities.

Any soils excavated to facilitate removal of the UST's were returned to the UST areas. A new 3,000 gallon baffled tank was installed on September 15, 1995. Any

Mr. Ted Unkles
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contaminated soils excavated in association with this UST will need to be stockpiled off-site for future analysis and treatment. We estimate that the total amount of soils to be stockpiled will be approximately 80 cubic yards. We are currently obtaining the appropriate approvals from the property owner, Town, and the VDEC for off-site stockpiling.

A number of potential receptors are present surrounding the site. These include: ground water, soil, domestic water supplies, residential basements, and the surface water mentioned above. LAG is planning to install ground water monitoring wells, perform basement PID surveys, and obtain water supply samples from the neighboring residences within the next week. LAG is proceeding with the Expressway Site Investigation method of performing the site investigation and necessary analysis. The level of contamination on-site will necessitate future monitoring and also may require some level of remediation. We will be submitting our Expressway report within the required time frame.

If you have any questions with regard to the abovementioned information, please do not hesitate to call me at 453-4384.

Sincerely,



Steven LaRosa
Hydrogeologist

SL/lr
Enclosure
cc: Bill Sellinger

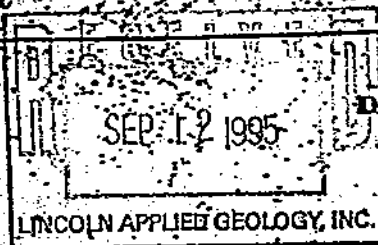


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State of Vermont

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
Geologist
Natural Resources Conservation Council
BY SERVICE FOR THE HEARING IMPAIRED
0-253-0191 TDD-Voice
0-253-0195 Voice-TDD



AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main Street/West Office
Waterbury, Vermont 05671-0404
(802) 241-3888
FAX (802) 244-6141

SITE INVESTIGATION EXPRESSWAY NOTIFICATION

Site Owner: Bradford Oil Company Inc.

Site Name, Town: West Barnet Garage, West Barnet, VT

☒ Yes, this site will participate in the Site Investigation Expressway Process.

☐ No, this site will not participate in the Site Investigation Expressway Process.

If yes, please complete the checklist below:

✓ Contamination present in soils above action levels ☒ Yes ☐ No

If yes, summarize levels:

Known release levels up to saturated lamp on PID

✓ Free product observed ☒ Yes ☐ No On Soils

✓ Groundwater contamination observed ☒ Yes ☐ No

✓ Surface water contamination observed ☐ Yes ☒ No

✓ Suspected release of hazardous substances ☐ Yes ☒ No

If yes, please explain:

✓ Affected receptors ☒ Yes ☐ No

If yes, please identify receptors including names and addresses of third party receptors:

soil, ground water contamination expected.

Please provide an estimated date of when you expect to submit Site Investigation Report: 10/17/95

UNDERGROUND STORAGE TANK PERMANENT CLOSURE FORM

AGENCY USE ONLY
 Sched. closure date: _____
 Facility Town: Barnet
 Facility ID#: W.B. Garage
 DEC Official: [Signature]
 Evaluated by: _____

VERMONT AGENCY OF NATURAL RESOURCES
 DEPT. OF ENVIRONMENTAL CONSERVATION
 HAZARDOUS MATERIALS MANAGEMENT DIV.
 103 SOUTH MAIN STREET, WEST BUILDING
 WATERBURY, VERMONT 05671-0404
 TELEPHONE: (802) 241-3888

Company conducting site assessment: Lincoln Applied Geo.
 Person conducting site assessment: Steve LaRosa
 Telephone number of company (or person): 453-4384
 Date of UST closure: 9-14-95
 Date of site assessment: 9-14-95

This Closure Form may only be used for the facility and date indicated in the upper left hand corner. Changes in the scheduled closure date should be phoned in at least 48 hours in advance. Both the yellow and white copies must be returned to the above address; the pink copy should be retained by the UST owner. A written report from an environmental consultant covering all aspects of closure and site assessment, complete with photographs and any other relevant data, must accompany this form. All procedures must be conducted by qualified personnel - including training required by 29 CFR 1910.120. Documentation of all methods and materials used must be adequate. All work must be performed in compliance with DEC policy "UST Closure and Site Assessment Requirements" as well as all applicable statutes, regulations, and additional policies. The DEC may reject inadequate closure forms and reports.

Section A. Facility Information:

Name of Facility: West Barnet Garage Number of Employees: 2
 Street address of facility: Main Road, Barnet, VT.
 Owner of UST(s) to be closed: Bradford Oil Company Inc.
 Name of Contact and telephone number if different from owner: Bill Sellinger
 Mailing address of owner: P.O. Box 394, Bradford, VT. 05033
 Telephone number of owner: 802-222-5250

Section B. UST Closure Information: (please check one)

Reason for initiating UST Closure: ☒ Suspected Leak ☐ Liability ☐ Replacement ☐ Abandoned
 Which portion of UST is being closed: ☐ Tanks ☐ Piping ☒ Tanks & Piping
 USTs undergoing permanent closure. Include condition and if leaks were found:

UST#	Product	Size (gallons)	Tank age	Tank condition	Piping age	Piping condition
<u>1</u>	<u>regular gas</u>	<u>2,000</u>	<u>20 years</u>	<u>good</u>	<u>20 years</u>	<u>good</u>
<u>2</u>	<u>super gas</u>	<u>1,000</u>	<u>20 years</u>	<u>leaking</u>	<u>20 years</u>	<u>good</u>

Which tanks, if any, will be closed in-place (must have approval from DEC) none
 Disposal/destruction of removed UST(s): _____
 Location Frye Quarry - North Danville, VT. Date 9/14/95 Method scrap Date 9/15/95

Amount (gal.) and type of waste generated from USTs: 168 gallons of water
 Tank cleaning company (must be trained in confined space entry): Bradford Oil Company
 Certified hazardous waste hauler (tank contents are hazardous waste unless recovered and usable product): none
 Hazardous waste generator ID number: none

USTs not closed. This portion must be filled in to include all USTs, regardless of size, and status, *whether "abandoned", "in use", "to be installed", or "not aware of any other tanks on-site". Remember: most new installations require permits and advance notice to this office.

UST#	Product	Size (gallons)	Tank age	*Tank Status	Piping Age	*Piping Status
<u>1</u>	<u>regular&super</u>	<u>3,000 gal.</u>	<u>new</u>	<u>to be installed</u>	<u>new</u>	<u>to be install</u>

Section C. Initial site characterization:

Work in this section must be completed by a professional environmental consultant or hydrogeologist with experience in environmental sampling for the presence of hazardous materials. A full report from the consultant must accompany this form.

Excavation size (ft²): 300 Excavation depth (ft): 10 Soil type: fine sand Bedrock depth (ft): _____
 PID Information: Make: HNTI Model: PI 101

PID Calibration information: Date 9-13-95 Time 4:00pm Type of Gas Isobutylene
Contamination detected with PID (ppm): Peak SL Depth of peak (ft) 8 Avg. 200 ppm
Soil samples collected for laboratory analysis? Yes # of samples No X
(show locations and depth of all readings and samples on diagram.)

Have soils been polyencapsulated on site? Yes list amount (cu. yds.): No
Have any soils been transported off site? Yes list amount (cu. yds.): No X

Location transported to: Date: / /
Name of DEC official granting approval to transport soils:

Amount of soils backfilled. (cu. yds.): 30 Avg. PID 200 ppm

Have limits of contamination been defined? Yes No X

Are you aware of any other contaminants which may be present? Yes No X

Comments:

Free phase product encountered? Yes thickness No
Groundwater encountered? Yes depth(ft) No X

Were there existing monitoring wells on site? Yes (# samples taken) No X

Have new monitoring wells been installed? Yes (# samples taken) No X

Samples collected from monitoring wells for lab analysis? Yes No X

(include well location, headspace readings, and laboratory results if applicable in a separate report and on the site diagram)

Is there a water supply well or spring on site? Yes X (check type: shallow dug rock spring) No

How many public water supply wells are located within a 0.5 mile radius? none min. distance (ft):

How many private water supply wells are located within a 0.5 mile radius? 8-10 min. distance (ft): 80

What receptors have been impacted? Xsoil indoor air X groundwater surface water water supply

Section D. Statements of UST closure compliance: (must have both signatures or site assessment not complete)

As the party responsible for compliance with the Vermont UST Regulations and related statutes at this facility, I hereby certify that all of the information provided on this form is true and correct to the best of my knowledge.

Gary Fontaine
Signature of UST Owner or owner's authorized representative

Date: Sept 14, 1995

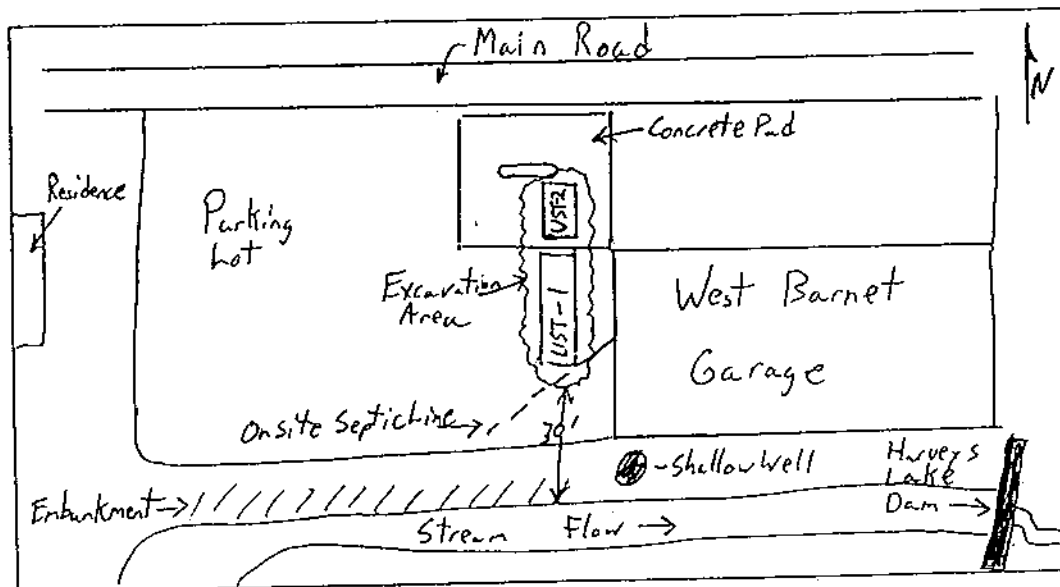
As the environmental consultant on site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.

AD L
Signature of Environmental Consultant

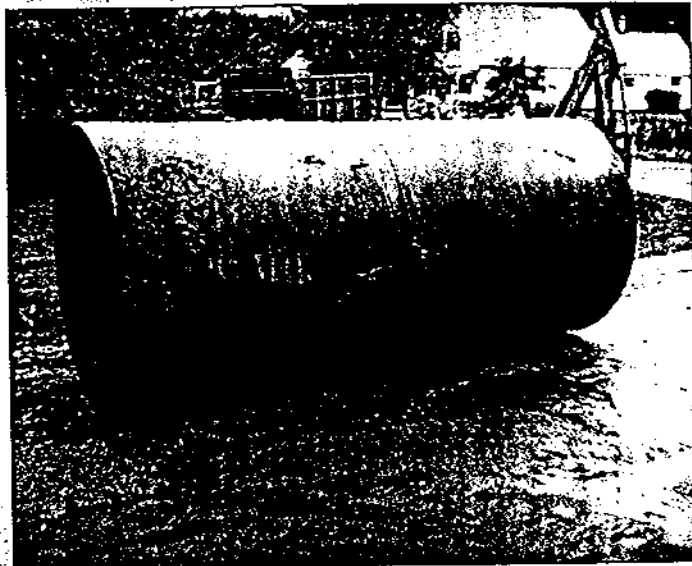
Date: Sept. 14, 1995

SITE DIAGRAM

Show location of all tanks and distance to permanent structures, sample points, areas of contamination, potential receptors and any pertinent site information. Indicate North arrow and major street names or route number.



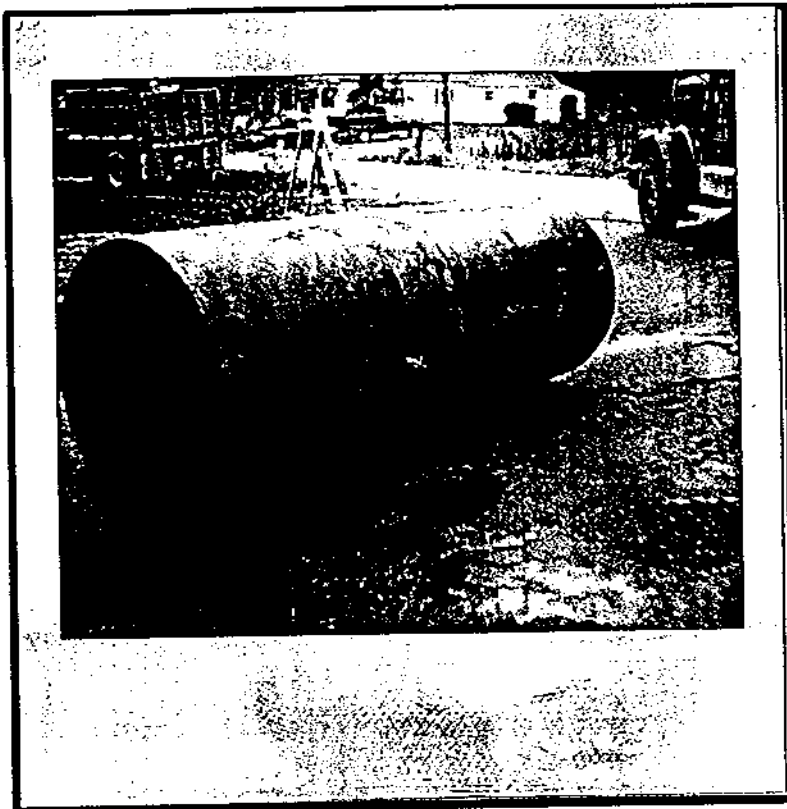
Return form along with complete narrative report and photographs to the Department of Environmental Conservation, Underground Storage Tank Program within 72 hours of closure.



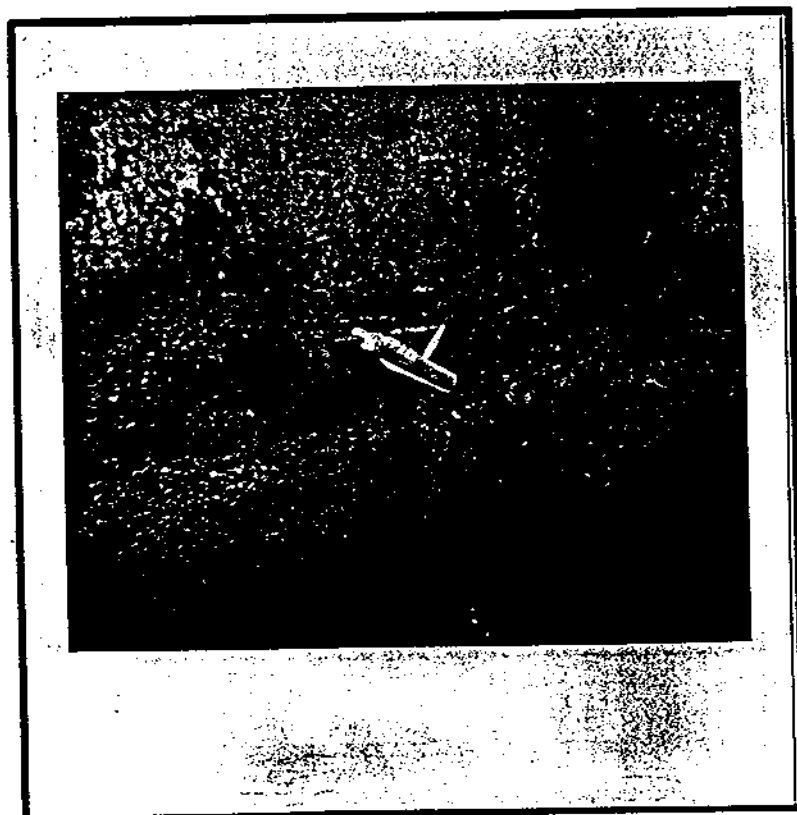
Photograph #1
UST #1 - 2,000 Gallons



Photograph #2
UST #1 Tank Saddle



Photograph #3
UST #2 - 1,000 Gallons



Photograph #4
UST #2 - 0.25" Hole

Appendix B

Well Logs

WELL LOG

WELL: MW-1
LOCATION: West Barnet Garage, West Barnet, Vermont - NW corner of pump island
DRILLER: Tri-State Drilling and Boring, Inc., West Burke, Vermont
HYDROGEOLOGIST: William Norland, Lincoln Applied Geology, Inc.
DATE: September 19, 1995

Soils Description: (BG = Background [0.2], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0 - 0.25'	Dry, black, asphalt pavement.	
0.25' - 2'	Dry, black, <u>fine sand and silt</u> , little fine to coarse gravel. <u>Fill</u> . Old gasoline odor.	200
2' - 2.5'	Boulder.	
3' - 3.4'	Moist, brown, <u>silt</u> ; some very fine sand; little peat.	150
3.4' - 4.2'	Wet, grey, <u>silt and very fine sand</u> .	50
4.2' - 7'	Wet, grey with olive mottles, <u>silt and very fine sand</u> .	5.0 - 4.6'
7' - 15'	Wet, grey, <u>fine sand</u> ; some fine to coarse gravel; little silt, moist sand. <u>Glacial till</u> .	3.0 - 9' 0.2 - 14'

13' deep well installed.

Well Construction:

Bottom of Boring: 15'
Bottom of Well: 13'
Well Screen: 10' (3' - 13') 0.020" slot, 2" PVC, sch. 40
Solid Riser: 2.5' (0.5' - 3') 2" PVC, sch. 40
Sand Pack: 11' (2' - 13')
Bentonite Seal: 1' (1' - 2')
Backfill: 0.5' (0.5' - 1')
Well Box: One - cemented flush with grade

WELL LOG

WELL: MW-2
LOCATION: West Barnet Garage, West Barnet, Vermont - S of UST and pump island in parking area
DRILLER: Tri-State Drilling and Boring, Inc., West Burke, Vermont
HYDROGEOLOGIST: William Norland, Lincoln Applied Geology, Inc.
DATE: September 19, 1995

Soils Description: (BG = Background [0.2], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0 - 3'	Sand and gravel parking area	
3' - 3.3'	Moist, tan, <u>fine sand</u> ; little silt.	10.4
3.3' - 4.2'	Moist, dark brown, <u>silt</u> ; some very fine sand; little peat.	90
4.2' - 7'	Wet, olive grey and brown, <u>fine to medium sand</u> ; some silt; trace fine gravel. Strong old gas odor. Drill to 8' depth.	215
7' - 9.6'	Wet, olive grey and brown, <u>fine sand and silt</u> ; some medium sand; little fine to medium gravel. <u>Glacial till</u> .	BG
9.6' - 12'	Wet, grey, <u>fine sand</u> ; some medium sand; little fine to coarse gravel, silt. <u>Glacial till</u> .	BG
12' - 15'	Wet, grey, <u>fine sand and silt</u> ; some fine to coarse gravel; little medium to coarse sand. <u>Glacial till</u> .	BG
	13' deep well installed.	

Well Construction:

Bottom of Boring: 15'
Bottom of Well: 13'
Well Screen: 10' (3' - 13') 0.020" slot, 2" PVC, sch. 40
Solid Riser: 2.5' (0.5' - 3') 2" PVC, sch. 40
Sand Pack: 11' (2' - 13')
Bentonite Seal: 1' (1' - 2')
Backfill: 0.5' (0.5' - 1')
Well Box: One cemented flush with grade.

WELL LOG

WELL: MW-3
LOCATION: West Barnet Garage, West Barnet, Vermont - Near SE corner of building by stream
DRILLER: Tri-State Drilling and Boring, Inc., West Burke, Vermont
HYDROGEOLOGIST: William Norland, Lincoln Applied Geology, Inc.
DATE: September 19, 1995

Soils Description: (BG = Background [0.2], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0 - 3'	Sand and gravel parking area	
3' - 6'	Moist, dark brown, <u>fine to medium sand</u> ; little silt; fine to coarse gravel. <u>Fill</u> . Old gas odor. Drill to 8' depth.	15.2
6' - 8.5'	Wet, grey, <u>silt</u> ; little very fine sand. Old gas odor.	40
8.5' - 12'	Wet, grey, <u>fine sand</u> ; some silt; little medium sand, fine to coarse gravel. <u>Glacial till</u> .	35
12' - 15'	Wet, grey, <u>fine sand and silt</u> ; little medium sand, fine to coarse gravel. <u>Glacial till</u> . 13' deep well installed.	0.4

Well Construction:

Bottom of Boring: 15'
Bottom of Well: 13'
Well Screen: 10' (3' - 13') 0.020" slot, 2" PVC, sch. 40
Solid Riser: 2.5' (0.5' - 3') 2" PVC, sch. 40
Sand Pack: 11' (2' - 13')
Bentonite Seal: 1' (1' - 2')
Backfill: 0.5' (0.5' - 1')
Well Box: One - cemented flush with grade

WELL LOG

WELL: MW-4
LOCATION: West Barnet Garage, West Barnet, Vermont - E. of new and former USTs
DRILLER: Tri-State Drilling and Boring, Inc., West Burke, Vermont
HYDROGEOLOGIST: William Norland, Lincoln Applied Geology, Inc.
DATE: September 19, 1995

Soils Description: (BG = Background [0.2], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0 - 1'	Sand and gravel parking lot.	
1' - 5'	No sample - fell out of sampler. <u>Backfill</u> in former UST excavation.	
5' - 8'	Wet, dark brown, <u>fine sand and silt</u> ; some medium sand. Strong gasoline odor.	220
8' - 10'	Wet, dark brown, <u>fine sand</u> ; some medium sand, fine to coarse gravel; little silt. Strong old gas odor.	200
10' - 10.6'	Wet, dark brown, <u>fine sand</u> ; some fine to coarse gravel; little silt.	75
10.6' - 12'	Wet, grey, <u>fine sand</u> ; some silt; little fine to coarse gravel, medium sand. <u>Glacial till</u> . Strong old gas odor.	15 (11') 2.0 (12')
12' - 14'	No sample - drill around large boulder.	
	14.6' deep well installed	

Well Construction:

Bottom of Boring: 14.6'
Bottom of Well: 14.6'
Well Screen: 10' (3' - 13') 0.020" slot, 4" PVC, sch. 40
Solid Riser: 2.7' (0.3' - 3') and 1.0' (13' - 14'). End plug 0.6' (14' - 14.6')
Sand Pack: 12.6' (2' - 14.6')
Bentonite Seal: 1' (1' - 2')
Backfill: 0.5' (0.5' - 1')
Well Box: One - cemented flush with grade

Appendix C

Water Quality Results

SEP 26 1995

Green Mountain Laboratories, Inc.

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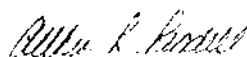
LABORATORY RESULTS

CLIENT NAME:	Lincoln Applied Geology	REF #:	0182
ADDRESS:	RD1 Box 710 Bristol, Vermont 05443	PROJECT NO.:	not given
SAMPLE LOCATION:	West Barnet Garage	DATE OF SAMPLE:	9/19/95
SAMPLER:	Bill Norland	DATE OF RECEIPT:	9/20/95
		DATE OF ANALYSIS:	9/20/95 - 9/21/95
ATTENTION:	Bill Norland	DATE OF REPORT:	9/24/95

Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- Water samples submitted for VOC analysis were preserved with HCl. The trip blank was prepared by the client from reagent water supplied by the laboratory.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing calibration standards were monitored at intervals indicated in the specified method. The resulting analytical precision and accuracy were determined to be within method QA/QC acceptance limits.
- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analytes to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:



Director, Chemical Services

AE

Green Mountain Laboratories, Inc.

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	Coppenrath Well-at P. Tank
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1130
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 20, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
MTBE	5	ND

Surrogate % Recovery: 112 %

ND = Not Detected.

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF. #:	0182
REPORT DATE:	September 24, 1995	STATION:	Trip Blank
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	0800
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 20, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
MTBE	5	ND

Surrogate % Recovery: 112 %

ND = Not Detected.

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	Harvey's Lake Stream-above Dam
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1030
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 20, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
MTBE	5	ND

Surrogate % Recovery: 107 %

ND = Not Detected.

SEP 26 1995

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	West Barnet Garage -Shallow Well Sink Tap
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	0945
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 21, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	10	780
Toluene	10	270
Ethylbenzene	10	250
Xylenes	30	1200
MTBE	50	210

Surrogate % Recovery: 103 %

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	MW-1
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1203
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 20, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	18
Toluene	1	93
Ethylbenzene	1	20
Xylenes	3	100
MTBE	5	ND

Surrogate % Recovery: 101 %

27 2 95

ND = Not Detected.

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	MW-2
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1250
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 21, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	10	370
Toluene	10	150
Ethylbenzene	10	120
Xylenes	30	360
MTBE	50	700

Surrogate % Recovery: 106 %

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	MW-3
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1300
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 21, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	100	14000
Toluene	100	20000
Ethylbenzene	100	2300
Xylenes	300	13000
MTBE	500	3600

Surrogate % Recovery: 105 %

SEP 26 1995

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	MW-4
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1455
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 21, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	50	600
Toluene	50	8200
Ethylbenzene	50	1800
Xylenes	150	9300
MTBE	250	2400

Surrogate % Recovery: 99.8 %

SEP 28 1995

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	Fitzgerald Well-at P. Tank
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1530
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 21, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
MTBE	5	ND

Surrogate % Recovery: 107 %

ND = Not Detected

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LABORATORY RESULTS

GC/MS METHOD - BTEX (BENZENE, TOLUENE, ETHYLBENZENE, XYLENES) + MTBE

CLIENT NAME:	Lincoln Applied Geology	PROJECT CODE:	not given
PROJECT NAME:	West Barnet Garage	GML REF.#:	0182
REPORT DATE:	September 24, 1995	STATION:	White Well-at P. Tank
DATE SAMPLED:	September 19, 1995	TIME SAMPLED:	1630
DATE RECEIVED:	September 20, 1995	SAMPLER:	Bill Norland
ANALYSIS DATE:	September 21, 1995	SAMPLE TYPE:	Water

PARAMETER	PQL (µg/L)	Conc. (µg/L)
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
MTBE	5	ND

Surrogate % Recovery: 112 %

ND = Not Detected.

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ANALYSIS REQUESTED

Page
_ of _
GML #

CLIENT NAME *Lincoln Applied Geology Inc.*
ADDRESS *P.O. Box 710 Bristol VT. 05443*
PROJECT NAME *West Barnet Garage*
PROJECT NUMBER
PROJECT MANAGER *Bill Norland*
SAMPLER *Bill Norland*

0182

Sample Location	Date	Time	# of cont.	pres ervd	Sample Type	REMARKS:									
<i>Trip Blank</i>	<i>9-19-95</i>	<i>0800</i>	<i>2</i>	<i>HCl</i>	<i>Water</i>										
<i>W. Barnet Garage - Shallow Well Sink Trap</i>		<i>0945</i>	<i>2</i>												
<i>Harvey's Lake Stream - Above Dam</i>		<i>1030</i>	<i>2</i>												
<i>Coppernath Well - at P. Tank</i>		<i>1130</i>	<i>2</i>												
<i>MW1</i>		<i>1203</i>	<i>2</i>												
<i>MW2</i>		<i>1250</i>	<i>2</i>												
<i>MW3</i>		<i>1300</i>	<i>2</i>												
<i>MW4</i>		<i>1455</i>	<i>2</i>												
<i>Fitzgerald Well - at P. Tank</i>		<i>1530</i>	<i>2</i>												
<i>White Well - at P. Tank</i>		<i>1630</i>	<i>2</i>												

CHAIN OF CUSTODY RECORD

1) Relinquished by:		Received by:	<i>[Signature]</i>	Date/Time	<i>9/20/95 2:15 PM</i>
2) Relinquished by:		Received by:		Date/Time	
3) Relinquished by:		Received by:		Date/Time	

**West Barnet
Well Owners List**

Merle Fitzgerald
RR #1 Box 211A
Barnet, VT 05821

(802) 633-2855

Kimberly White
RR #1 Box 211
Barnet, VT 05821

(802) 633-3886

George & Susan Coppenrath
HCR 30 Main Street
W. Barnet, VT 05821

(802) 633-2855

Bernice Mackey
HCR 30
Barnet, VT 05821

(802) 633-2874

Appendix E

Cost Estimate for Additional Investigations for CAFI

**West Barnet Garage
Work Plan/Cost Estimate
for Further Investigation and
Report Generation
Nov-95**

Recommendation 5 Ground Water Sampling & Analysis

After a 1 week equilibration period all monitor wells will be appropriately monitored for water level, headspace PID, purged and sampled. Water supplies will be sampled from the tap after purging. The Harvey's Lake stream at the upper dam pin will also be sampled. All samples including, a trip blank will be analyzed for BTEX and MTBE.

Task 5 Ground Water Sampling and Analysis

Field Technician -	8.0	hr(s) @	\$30.00	per hour	\$	240.00
Field Technician O.T. -	4.0	hr(s) @	\$45.00	per hour	\$	180.00
PID and Interface Probe -	1.0	day(s) @	\$100.00	day	\$	100.00
Generator and Pump -	1.0	day(s) @	\$110.00	day	\$	110.00
Bailer(s) -	10.0	@	\$6.73	each	\$	67.30
Mileage -	200.0	mile(s) @	\$0.30	per mile	\$	60.00
Samples -	16.0	@	\$60.00	each	\$	960.00

Total Task 4 \$ 1,717.30

Recommendation 6 Summarization of Extended Investigation

Task 6 Reporting

Principal/Senior Hydrogeologist -	1.0	hr(s) @	\$75.00	per hour	\$	75.00
Professional Engineer -	4.0	hr(s) @	\$75.00	per hour	\$	300.00
Hydrogeologist/Site Manager -	12.0	hr(s) @	\$45.00	per hour	\$	540.00
Computer Technician -	6.0	hr(s) @	\$30.00	per hour	\$	180.00
Administrative Assistant -	4.0	hr(s) @	\$30.00	per hour	\$	120.00

Total Task 5 \$ 1,215.00

Total All Tasks \$ 8,302.95



Lincoln Applied Geology, Inc.
Environmental Consultants

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**West Barnet Garage
Work Plan/Cost Estimate
for Further Investigation and
Report Generation
Nov-95**

Recommendations 1, 2, 3, and 4 - Soil Vapor Survey, Monitor Well Installation with Soil Sampling, and Stadia Survey

A minimum of 5 survey points will be monitored using an AMS probe set at 3' below ground surface. PID assays will be obtained by actively pumping air from the AMS probe into an HNU 10.2 eV PID. Carbon trap samples will be taken from two survey point locations using a personal sampling pump. Each sample will be analyzed by EPA Method 8260. Monitor wells will be installed after the soil gas survey. Due to access problems it will be necessary to install 1 hand auger well. All wells will be properly developed and constructed by industry standards. A split spoon sample will be taken by the drill rig in the source area.

Task 1 & 3 Soil Vapor Survey and Installation of Hand Augered Well (1)

Hydrogeologist/Site Manager -	12.0	hr(s) @	\$45.00	per hour	\$	540.00
Field Technician -	8.0	hr(s) @	\$30.00	per hour	\$	240.00
Field Technician O.T. -	4.0	hr(s) @	\$45.00	per hour	\$	180.00
AMS Probe -	1.0	day(s) @	\$125.00	per day	\$	125.00
PID (Photoionization Detector) -	1.0	day(s) @	\$75.00	day	\$	75.00
Air Pump -	1.0	day(s) @	\$30.00		\$	30.00
Carbon Trap Analysis -	2.0	@	\$175.00		\$	350.00
? → 8260 Samples -	2.0	@	\$150.00		\$	300.00
Well Screen -	10.0	feet @	\$3.39	per foot	\$	33.90
Solid Riser -	5.0	feet (@)	\$2.24	per foot	\$	11.20
50 lb bags of sand -	4.0	@	\$10.58	each	\$	42.32
Bentonite -	1.0	bag(s) @	\$10.92	each	\$	10.92
Well Boxes -	1.0	@	\$36.80	each	\$	36.80
Concrete -	1.0	bag(s) @	\$5.51	each	\$	5.51
Development Equipment -	0.5	day(s) @	\$110.00	each	\$	55.00
Mileage -	200.0	mile(s) @	\$0.30	per mile	\$	60.00

Total Task 1 \$ 2,095.65

Task 2 A. Monitoring Well Installation (4) and Supervision

Driller's Charges -					\$	1,540.00
Hydrogeologist/Site Manager -	12.0	hr(s) @	\$45.00	per hour	\$	540.00
PID (Photoionization Detector) -	1.0	day(s) @	\$75.00	day	\$	75.00
O2/LEL -	1.0	day(s) @	\$50.00	day	\$	50.00
Development Equipment -	1.0	day(s) @	\$110.00	day	\$	110.00
Mileage -	200.0	mile(s) @	\$0.30	per mile	\$	60.00
? → Soil Samples (8260) -	6.0	@	\$150.00	each	\$	900.00

Total Task 2 \$ 3,275.00

Task 4 Stadia Survey will be performed concurrent with Tasks 1 and 2



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